



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D5373-9

Job Sheet 166341



Part No: D5373-9

Job Qty: 10 ea

Part Name: Oil Drain Line



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/30/17

Job Tracking No:

Due Date: 10/31/17

Created By: Mario Poulin

Type: Stock

Description:

Note: DWG REV D IPP REV:A 17.05.17 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	10 pcs	10/30/17	10/30/17	0.00	0.00	Purchasing		
110	Packaging	10 pcs	10/30/17	10/30/17	0.00	0.00	Packaging2		
120	QC	10 pcs	10/30/17	10/30/17	0.00	0.00	QC6		
121	CNC Vertical Machining	10 pcs	10/30/17	10/30/17	0.00	6.58	HAAS 1		
122	QC	10 pcs	10/30/17	10/30/17	0.00	0.00	QC2		
123	QC	10 pcs	10/30/17	10/30/17	0.00	0.00	QC8		
130	Small Fab	10 pcs	10/31/17	10/31/17	0.00	0.58	Small Fab		
140	QC	10 pcs	10/31/17	10/31/17	0.00	0.00	QC5		
150	Packaging	10 pcs	10/31/17	10/31/17	0.00	0.00	Packaging3		
160	QC21-SA	10 Ea	10/31/17	10/31/17	0.00	0.00	QC21		

Part Op 110 - Receive & Inspect for Damage & Mat'l Certs

Descriptions: 120 - QC6- All purchased or subcontracted products

122 - QC2- Inspect parts off machine FAI/FAIB

123 - QC8- Inspect parts - second check

140 - QC5- Inspect part completeness to step on W/O

150 - Identify as per dwg & Stock Location: _____

160 - QC21- Final Inspection - Work Order Release

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	101062D0170C270	10	0	0	0
130-Small Fab	D2182-045 3 & 9	10	0	0	0
	D2729-4	10	1	0	0

Part Specifications

Specifications could not be found.

PART NO:
Revision:
Operation:
Quantity:
Change No:

D5373-9
Purchasing
10

Mfg Date: 10/24/17
Job No: 166341



Oil Drain Line

DART
AEROSPACE
S001776

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Work Order ID 166341***166341***

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Friday, September 15, 2017 1:14:01 PM

Item ID: D5373-9 *212* Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 17-613 Stop ***NS2***
Item Name: Oil Drain Line
Start Date: 9/15/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 9/22/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: *plb* Date: **SEP 15 2017** Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D5373	E								

100

0.00

100

Purchasing

Purchasing

Memo

0.00

Issue P/O: *37817*

Purchase Part Number: 101062D0170CR270

Supplier: STRATOFLEX

Certificate of conformity is required

*10**plb*
SEP 20 2017

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.00

10x SP 171023

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☒ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : <u>17/9/20</u>	Step #: <u>100</u>	QTY Effective :		MRB (QSI042) Approval DAS 12 9-89 <u>17/9/20</u>	
Description Work Order Deviation		Disposition			
<u>Typo on dwg. Part number incorrect for MFG.</u>		<u>Order mfg part number 10106ZD01705270.</u> <u>Per mfg documentation "C" and "CR" refer to the mct'l and are interchangeable</u>		Completed By DAS 12 9-89 <u>17/9/20</u> Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

166341

Friday, September 15, 2017 1:14:01 PM

Item ID:	D5373-9	Accept	*N900040100*	Setup	Start	*NS1*
Revision ID:	URF 17-613					
Item Name:	Oil Drain Line				Stop	*NS2*
Start Date:	9/15/2017	Start Qty:	10.00	*10*	Cust Item ID:	
Required Date:	9/22/2017	Req'd Qty:	10.00	*10*	Customer:	
Reference:						

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____ **Run** **Start** ***NR1***
 QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop** ***NR2***

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

Work Order ID 166341***166341***

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Friday, September 15, 2017 1:14:01 PM

Item ID: D5373-9 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 17-613 Stop ***NS2***
Item Name: Oil Drain Line
Start Date: 9/15/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 9/22/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
123 *123* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.00		B.A 17-11-07		10	✓		
130 *130* Small Fab Small Fab	 Memo INSTALL LABEL D2729 AS PER DWG NOTES	0.00 0.60							
140 *140* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00				10			

DAS
38
9-89

NOV 10 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	☐ OTHER : _____							
Misidentified ☐	☐	Past Due								

166341

Friday, September 15, 2017 1:14:01 PM

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____ **Run** **Start** ***NR1***
 QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop** ***NR2***

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :	
Misidentified ☐	Past Due ☐																																																														

Picklist Print

Page 1

Friday, September 15, 2017 1:13:59 PM

Work Order ID: 166341

166341

Parent Item: D5373-9

D5373-9

Parent Item Name: Oil Drain Line

Start Date: 9/15/2017

Required Date: 9/22/2017

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A 17.05.17 NEW ISSUE DD VERF:JFS IPP REV:B
17.09.15 AS PER DWG.E DD VERF:DP

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
101062D0170CR270		Purchased	No			100	Each	0.0000	1	10			
101062D0170CR270									**				
Oil Drain Line													
D2182-045		Manufactured	No			130	Each	0.0000	1	10			
D2182-045									**				
Heat Shrink 4.5" Long													
D2729-4		Manufactured	Yes			130	Each	0.0000	1	10			
D2729-4									**				
Red Decal													

10 x SP17-10-23

DQA: _____ Date: _____



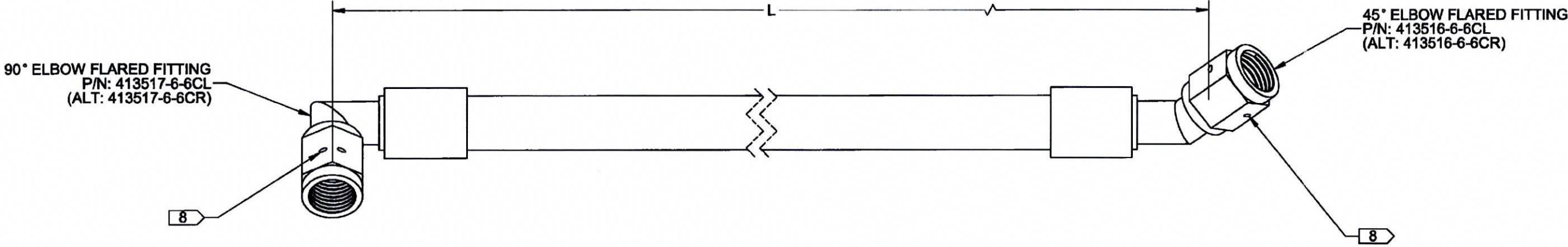
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: 2017. 11. 09		Step #:		QTY Effective:			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition				Completed By	
D2182-045 (0.75") cannot be installed overtop of the hydraulic fittings.				Acceptable to use D3158 (1.00"). same material but larger diameter skew. Wil Monterrosa 2017. 11. 09				Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER: ☐									

SPECIFICATION CONTROL DRAWING



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-9	OIL DRAIN LINE	STRATOFLEX	101062D0170CL270	17	0.615	0.298	0.41	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101062D0170CR270								

- NOTES:**
- 1) MATERIAL: PER TABLE
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
 - 7) WEIGHT: SEE TABLE
 - 8) FOR ALTERNATE PART NUMBERS (101062D0170CRXXX), DRILL LOCK-WIRE HOLES PER SHEET 7, DETAIL D

APPROVED	DESIGN	CC	DART AEROSPACE USA, INC.	
	DRAWN	WK	EUGENE, OR	
	CHECKED	VS	DRAWING NO.	REV. E
	MFG. APPR.	DD	D5373	SHEET 4 OF 7
	APPROVED	HS	TITLE	SCALE
	DE APPR.	DS	OIL DRAIN LINE	NTS
DATE	17.09.11	COPYRIGHT © 2016 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.		

Diane Baker

From: Robert Aboud
Sent: Wednesday, September 20, 2017 12:20 PM
To: Diane Baker
Cc: David Duval
Subject: FW: hose information
Attachments: parker hose spec.png

We can buy the C instead of CR

Rob Aboud

Director of Supply Chain

DART AEROSPACE

T 1-613-632-5200 Ext.244

M 1-514-979-6138

www.dartaerospace.com



From: Wade Kennedy
Sent: Wednesday, September 20, 2017 11:59 AM
To: Robert Aboud <raboud@dartaero.com>
Subject: hose information

Hello Robert,

The drawing is incorrect, the hose numbers are:

D5373-9 – 101062D0170C270

D5373-11 – 101062B0160C270

Wade

CR270

Ordering Information for Standard Items

1. HOSE ASSEMBLY:

STRAIGHT TO STRAIGHT (OR STRAIGHT TO SINGLE ELBOW) EXAMPLE:

101001-8CR-0185

Basic Hose Assembly Number

Size (1/2" O.D. Tube Size) In 1/16"

Assembly Length in Inches. The last digit specifies eighths of an inch.

See Material Note Below

DOUBLE ELBOW EXAMPLE: **101060E0185C180**

Basic Hose Assembly Number

Size (1/2" O.D. Tube Size) In 1/16"

Twist Angle (180° - See Page 4)

See Material Note Below

Assembly Length in Inches. The last digit specifies eighths of an inch.

SIZE CODE FOR DOUBLE ELBOW HOSE ASSEMBLIES

DASH SIZE	-3	-4	-5	-6	-8
SF CODE LETTER	A	B	C	D	E

MATERIAL: Unless otherwise noted, conforms to applicable typical specifications shown.

C or CR - Non-Brazed/Welded Parts - SAE 30304 (AMS5639) Other materials: Titanium, Inconel, etc, available.

Brazed/Welded Parts - SAE 30321 (AMS5557 or AMS5645)

CL - Same as CR except lockwire holes in nut

LENGTH MEASUREMENT - Length is measured along hose centerline from end of nipple to end of nipple

NOTE: For additional information on special materials or accessories not shown, contact Stratoflex.

NOTE: Unless otherwise noted, dimensions shown herein are nominal and are subject to change without notice. Contact Stratoflex Sales Order Department for current data.

2. IDENTIFICATION BANDS: An example of Identification bands used when required for Hose Assemblies confirming AS150.

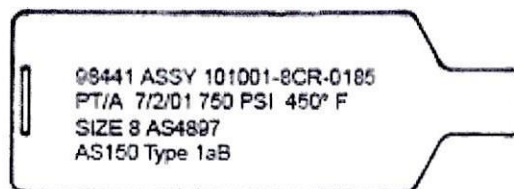
3. Standard length tolerances are:

Under 18 in.....+/- .125 in.

18 in. to 36 in.....+/- .250 in.

36 in. to 50 in.....+/- .500 in.

Over 50 in.....+/-1%





Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO37817

Supplier: AVI002-VU
Aviall
PO BOX 842275
Dallas, TX 75284-2275 USA
Phone: 905-676-1695
Fax: 905-676-9046

PO No: PO37817
PO Date: 9/20/17
Due Date: 10/20/17
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Pymt Terms: net 30
Freight Terms:
Special Comments:

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	101005-4CR-0062	-	Oil Drain Line		Firmed	10/20/17	10 pcs	0 pcs	10 pcs	\$108.12/pcs	\$1,081.20
Line Item Note As per Dwg D5373 Rev.E Job # 166339											
2	101005-6CR-0150	-	Oil Drain Line		Firmed	10/20/17	10 Ea	0 Ea	10 Ea	\$182.73/Ea	\$1,827.30
Line Item Note As per Dwg D5373 Rev E Job # 166340											
3	101062D0170C270	-	Oil Drain Line		Firmed	10/20/17	10 Ea	0 Ea	10 Ea	\$393.77/Ea	\$3,937.70
Line Item Note As per Dwg D5373 Rev.E Job 166341											
4	101062B0160C270	-	Oil Drain Line		Firmed	10/20/17	10 Ea	0 Ea	10 Ea	\$204.88/Ea	\$2,048.80
Line Item Note As per Dwg D5373 Rev. E Job # 166342											
Grand Total:											\$8,895.00

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



PACKING LIST



DELIVERY NUMBER: 8004975295

ROUTE: US FedEx International Priority

PAGE:1 of 1

DATE:27SEP17

TIME:07:49:26

EMP:00000000

ORD TYP: ZOR 132

CURRENCY:USD

TERMS:Net 30

CUSTOMER PO:37817
ORDER NUMBER:1003447157
ORDER DATE:22SEP17

B 10003951
I DART AEROSPACE LTD
L 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
T CANADA
O

S 10003951
H DART AEROSPACE LTD
I 1270 ABERDEEN STREET
P HAWKESBURY ON K6A 1K7
T CANADA
O

S 1009
H AVIALL DALLAS HOSE SHOP
I DALLAS HOSE SHOP
P 2755 REGENT BLVD
F DFW AIRPORT TX 75261
R USA
O

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
000010	0	1S	101005-4CR0062 HOSE: LT PRESSURE,PTFE	10	10	0	EA		108.12	1,081.20
			BATCH 100135185		10					
000020	0	1S	101005-6CR0150 HOSE: LT PRESSURE,PTFE	10	10	0	EA		182.73	1,827.30
			BATCH 100135186		10					
000030	0	1S	101062D0170C270 HOSE: LT PRESSURE,PTFE,ASSEMBLY	10	10	0	EA		393.77	3,937.70
			BATCH 100135187		10					
000040	0	1S	101062B0160C270 HOSE: LT PRESSURE,PTFE,ASSEMBLY	10	10	0	EA		204.88	2,048.80
			BATCH 100135188		10					

This is not an Invoice.
For payment processing, please refer to Invoice.

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.
Diversion contrary to U.S. Law is prohibited.

CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd, DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

JR Hofmann, Director, Global Quality

27SEP17
Date

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL
RETURNED MERCHANDISE SUBJECT TO HANDLING
FEE.

THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938
AMENDED.

CUSTOMER COPY



Hose Shop 2755 Regent Blvd, Dfw Airport, TX 75261
Phone: 972-586-1380 Fax: 972-586-1381

WWW.AVIALL.COM

TSO CERTIFICATION

It is hereby certified that (A) The parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control system/methods as set forth in the FAA issued technical standard order authorizations (TSOA) issued to Stratoflex and (B) such parts and/or materials are new and are in condition for safe operation.

Aviall Order Number: 1003447157

0010: 101005-4CR0062

10 ea.

0020: 101005-6CR0150

10 ea.

0030: 101062D0170C270 ✓

10 ea. ✓

0040: 101062B0160C270

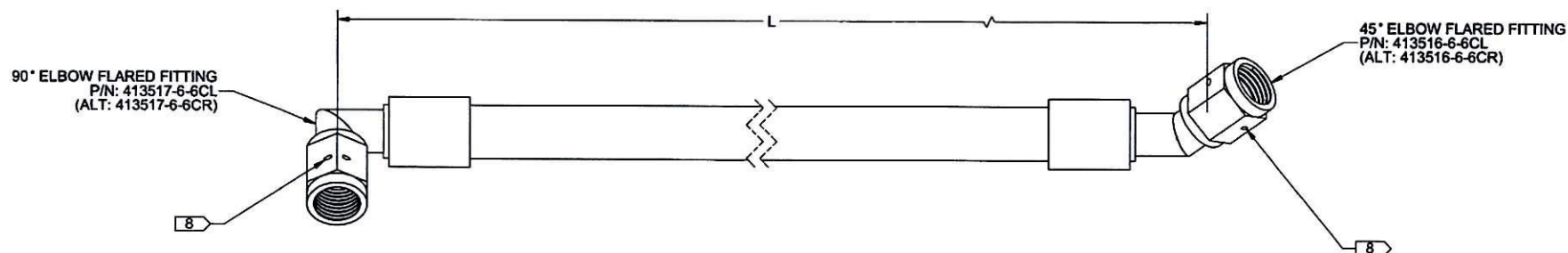
10 ea.

Signed: _____

Date: 09/26/2017

Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR Part 43. If applicable, satisfactory compliance with the conditions and tests required for TSO approval indicates the hose assembly has met the minimum performance standards as stated in the TSO. Furthermore, it is the responsibility of the installer to determine the installation eligibility and that it will not cause the hose assembly to be subjected to conditions in excess of those for which it has been approved.

SPECIFICATION CONTROL DRAWING



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-9	OIL DRAIN LINE	STRATOFLEX	101062D0170CL270	17	0.615	0.298	0.41	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101062D0170CR270								

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101062D0170CRXXX), DRILL LOCK-WIRE HOLES PER SHEET 7, DETAIL D

RELEASED
2017-09-19

APPROVED

DESIGN		CC		DART AEROSPACE USA, INC.	
DRAWN		WK		EUGENE, OR	
CHECKED		VS		DRAWING NO. D5373	
MFG. APPR.		DD		REV. E	
APPROVED		HS		SHEET 4 OF 7	
DE APPR.		DS		SCALE	
DATE 17.09.11				TITLE OIL DRAIN LINE	
				NTS	

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